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**Licata & Tyrrell P.C.**66 E. Main Street  
Marlton, New Jersey

Tel: (856) 810-1515

Fax: (856) 810-1454

February 12, 2004

**TO: Examiner Shahnan Shah (TC1600)****GROUP: 1645****FAX NUMBER: 703-872-9306****ATTORNEY DOCKET NO.: DC-0199****SERIAL NO.: 10/043,539****FILED: January 11, 2002****NUMBER OF PAGES: 13****MESSAGE:** Attached please find Executed Power of Attorney with Revocation; Executed Certificate Under 37 CFR 3.73 (b) and Certificate of Transmission by Facsimile.**Kathleen A. Tyrrell, Registration No. 38,350****URGENT! PLEASE DELIVER IMMEDIATELY UPON RECEIPT. THANK YOU!**

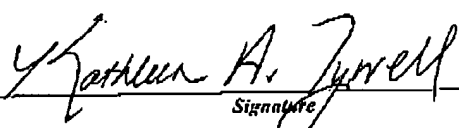
\* \* \* \* \*

If you have any questions, or did not receive the proper number of pages, or had trouble during transmission, please call 856-810-1515.

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<b>TRANSMITTAL LETTER</b> (General - Patent Pending)			Docket No. DC-0199
In Re Application Of: <b>Cheung et al.</b>			
Serial No. 10/043,539	Filing Date January 11, 2002	Examiner Shahnan Shah, Khatol S	Group Art Unit 1645
Title: <b>Compositions and Methods for Affecting Virulence Determinates in Bacteria</b>			
<u>TO THE COMMISSIONER FOR PATENTS:</u>			
Transmitted herewith is:  <b>Executed Power of Attorney with Revocation; Executed Certificate Under 37 CFR 3.73 (b) with a copy of Recorded Assignment.</b>			
in the above identified application.			
<input checked="" type="checkbox"/> No additional fee is required. <input type="checkbox"/> A check in the amount of _____ is attached. <input checked="" type="checkbox"/> The Director is hereby authorized to charge and credit Deposit Account No. <b>50-1619</b> as described below. <input type="checkbox"/> Charge the amount of _____ <input checked="" type="checkbox"/> Credit any overpayment. <input checked="" type="checkbox"/> Charge any additional fee required.			
 _____ Signature <b>Kathleen A. Tyrrell, Reg. No. 38,350</b>		Dated: <b>February 12, 2004</b>	
<b>LICATA &amp; TYRRELL P.C.</b> 66 East Main Street Marlton, N.J. 08053 Tel: 856-810-1515 Fax: 856-810-1454		<div style="border: 1px solid black; padding: 5px;"><small>I certify that this document and fee is being deposited on _____ with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</small></div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"><small>Signature of Person Mailing Correspondence</small></div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"><small>Typed or Printed Name of Person Mailing Correspondence</small></div>	
CC:			

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

OFFICIAL

Attorney Docket No.: 11312-006-999 (DC-0199)  
Inventors: Cheung et al.  
Serial No.: 10/043,539  
Filing Date: January 11, 2002  
Examiner: Not Yet Assigned  
Group Art Unit: 1645  
Title: Compositions and Methods for  
Affecting Virulence Determinants in  
Bacteria

U.S. Patent & Trademark Office  
P.O. Box 1450  
Alexandria, VA 22213-1450

Dear Sir:


POWER OF ATTORNEY WITH REVOCATION

Revoking any and all powers of attorney heretofore given in the matter of the above-entitled application, the undersigned, assignee of the entire interest in the above-identified application, hereby appoints Licata & Tyrrell P.C., Jane Massey Licata, Registration No. 32,257, Kathleen A. Tyrrell, Registration No. 38,350, Laura Plunkett, Registration No. 45,015, and, Bridget C. Sciamanna, Registration No. 47,333, of Marlton, New Jersey, as attorney, with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith.

Send all future correspondence and address all telephone calls  
to:

Jane Massey Licata, Esquire  
Licata & Tyrrell P.C.  
66 E. Main Street  
Marlton, New Jersey 08053  
Phone: (856) 810-1515  
Fax: (856) 810-1454

Respectfully submitted,



Name: Alla Kan  
Title: Director  
Technology Transfer Office  
Trustees of Dartmouth College

Date: Oct. 27, 2003

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: 11312-006-999 (DC-0199)  
Inventors: Cheung et al.  
Serial No.: 10/043,539  
Filing Date: January 11, 2002  
Examiner: Not Yet Assigned  
Group Art Unit: 1645  
Title: Compositions and Methods for Affecting  
Virulence Determinants in Bacteria

## CERTIFICATE UNDER 37 CFR 3.73(b)

Trustees of Dartmouth College, a corporation certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. The assignment is attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own belief are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Alla Kan  
Signature

10-27-03  
Date

Alla Kan  
Typed or printed name

Director, Technology Transfer Office  
Title



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE

JUNE 23, 2003

PTAS

PENNIE & EDMONDS LLP  
THOMAS E. FRIEBEL  
1155 AVENUE OF AMERICAS  
NEW YORK, NY 10036-2711

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
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\*102367479A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/10/2003

REEL/FRAME: 013750/0563  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
CHEUNG, AMBROSE

DOC DATE: 01/30/2003

ASSIGNOR:  
MANNA, ADAR

DOC DATE: 01/30/2003

ASSIGNOR:  
ZHANG, GONGYI

DOC DATE: 02/07/2003

ASSIGNEE:  
TRUSTEES OF DARTMOUTH COLLEGE  
11 ROPE FERRY ROAD  
HANOVER, NEW HAMPSHIRE 03755

SERIAL NUMBER: 10043539 ✓  
PATENT NUMBER:

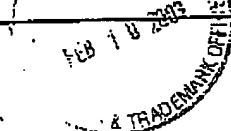

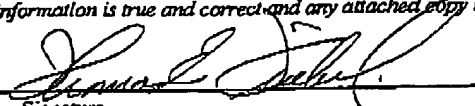
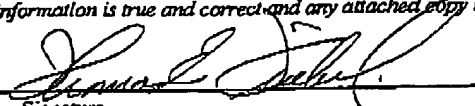
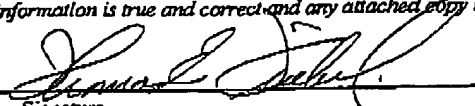
FILING DATE: 01/11/2002  
ISSUE DATE:

013750/0563 PAGE 2

SAUNDRA BALLENGER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



Express Mail Number: **EL 501 745 225 US**

		<b>02-19-2003</b>  <b>102367479</b> Washington, DC 20231	COVER SHEET <b>VL</b> Attorney Docket Number <b>11312-006</b>								
PATENTS AND TRADEMARKS nt Washington, DC 20231											
Please record the attached original documents or copy thereof											
1. Name of conveying party(ies): <b>2-10-03</b> Ambrose Cheung Adar Manna Gongyi Zhang Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: <u>Trustees of Dartmouth College</u> Address: <u>11 Rope Ferry Road</u> <u>Hanover, New Hampshire 03755</u> Country (if other than USA): _____									
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>January 30, 2003; January 30, 2003 and February 7, 2003</u>											
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) <u>10/043,539</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
5. Name and address of party to whom correspondence concerning document should be mailed: PENNIE & EDMONDS LLP 1155 Avenue of Americas New York, N.Y. 10036-2711		6. Number of applications and patents involved: <u>One</u> 7. Total fee (37 CFR 3.41): <u>\$ 40.00</u> Please charge to the deposit account listed in Section 8. 8. Deposit account number: <u>16-1150</u>									
DO NOT USE THIS SPACE											
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><b>Thomas E. Friebe</b></td> <td style="width: 10%; text-align: center;">29,258</td> <td style="width: 30%; text-align: center;"></td> <td style="width: 30%; text-align: center;">February 10, 2003</td> </tr> <tr> <td>Name of Person Signing</td> <td style="text-align: center;">Reg. No.</td> <td style="text-align: center;">Signature</td> <td style="text-align: center;">Date</td> </tr> </table>				<b>Thomas E. Friebe</b>	29,258		February 10, 2003	Name of Person Signing	Reg. No.	Signature	Date
<b>Thomas E. Friebe</b>	29,258		February 10, 2003								
Name of Person Signing	Reg. No.	Signature	Date								
Total number of pages including cover sheet:			5								

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignment  
 Washington, D.C. 20231

02/14/2003 LNUELLER 00000077 161150 10043539  
 01 FC:8021 40.00 CH

JOINT

## ASSIGNMENT

WHEREAS, WE, Ambrose Cheung, Adar Manna and Gongyi Zhang, ASSIGNORS, citizens of the United States, residing at 3 Webster Terrace, Hanover, New Hampshire 03755, 24 Parkhurst Street, Lebanon, New Hampshire 03766 and 3635 Hibiscus Way, Denver, Colorado 80273, are the inventors of the invention in Compositions and Methods for Affecting Virulence Determinants in Bacteria for which we have executed an application for a Patent of the United States

- ☐ which is executed on ☐ even date herewith or ☐ \_\_\_\_\_
- ☒ which is identified by Pennie & Edmonds LLP docket no. 11312-006
- ☒ which was filed on January 11, 2002, Application No. 10/043,539
- ☐ I hereby authorize and request my attorney, , of Pennie & Edmonds, LLP, , to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

and WHEREAS, Trustees of Dartmouth College, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date \_\_\_\_\_, 2003

Ambrose Cheung

L.S.

State of \_\_\_\_\_

County of \_\_\_\_\_

} SS.:  
}

On \_\_\_\_\_, 2003, before me, \_\_\_\_\_, Notary Public, personally appeared \_\_\_\_\_, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

State of \_\_\_\_\_

County of \_\_\_\_\_

} SS.:  
}

Date \_\_\_\_\_, 2003 \_\_\_\_\_ L.S.  
Adar Manna

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } SS.:

On \_\_\_\_\_, 2003, before me, \_\_\_\_\_, Notary Public,  
personally appeared \_\_\_\_\_, personally known to me on the basis of satisfactory evidence to be  
the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same  
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon  
behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

State of Colorado }  
County of Denver } SS.:

Date February 7, 2003 \_\_\_\_\_ L.S.

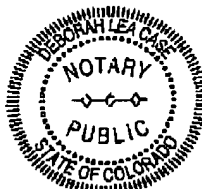
Gongyi Zhang

State of Colorado }  
County of Denver } SS.:

On February 7, 2003, before me, Deborah Lea Case, Notary Public,  
personally appeared Gongyi Zhang, personally known to me on the basis of satisfactory evidence to be  
the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same  
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon  
behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } SS.:



MY COMMISSION EXPIRES:  
May 3, 2003

JOINT

## ASSIGNMENT

WHEREAS, WE, Ambrose Cheung, Adar Manna and Gongyi Zhang, ASSIGNORS, citizens of the United States, residing at 3 Webster Terrace, Hanover, New Hampshire 03755, 24 Parkhurst Street, Lebanon, New Hampshire 03766 and 3635 Hibiscus Way, Denver, Colorado 80273, are the inventors of the invention in Compositions and Methods for Affecting Virulence Determinants in Bacteria for which we have executed an application for a Patent of the United States

- ☐ which is executed on ☐ even date herewith or ☐ \_\_\_\_\_
- ☒ which is identified by Pennie & Edmonds LLP docket no. 11312-006
- ☒ which was filed on January 11, 2002, Application No. 10/043,539
- ☐ I hereby authorize and request my attorney, , of Pennie & Edmonds, LLP, , to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

and WHEREAS, Trustees of Dartmouth College, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date January 30, 2003 Ambrose Cheung L.S.

State of New Hampshire } SS.:  
County of Grafton }

On Jan. 30, 2003, before me, Patti Beaulieu, Notary Public, personally appeared Ambrose Cheung, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Patti Beaulieu

State of New Hampshire } SS.:  
County of Grafton }

PATTI BEAULIEU, Commissioner of Deeds  
My Commission Expires August 9, 2005

Date 01/30/03, 2003 Adar Manna L.S.

State of New Hampshire } SS.:  
County of Gratton }

On Jan. 30, 2003, before me, Patti Beaulieu, Notary Public, personally appeared Adar Manna, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Patti Beaulieu

PATTI BEAULIEU, Commissioner of Deeds  
My Commission Expires August 9, 2005

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } SS.:

Date \_\_\_\_\_, 2003 Gongyi Zhang L.S.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } SS.:

On \_\_\_\_\_, 2003, before me, \_\_\_\_\_, Notary Public, personally appeared \_\_\_\_\_, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } SS.: